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PAGE 02/03 F. V. 1724

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

POWER OF ATTORNEY OR	
AUTHORIZATION OF AGENT AND	ļ
CORRESPONDENCE ADDRESS	

GAS SUPARATION DEVICE

Application Number	10/768,968
Filing Date	January 30, 2004
First Namud Inventor	Tavi Avaery
Confirmation Number	4338
Grasp Art Unit	1724
Examiner Name	rest assigned
Attorney Docket Number	2251.2013-001

I/We hereby appoint [X] the attorneys/agents associated with Customer No. 021005 [] Practitioner(s) named below: as mylour attorneystagents to prosecute the application Idantified above, including any continuation or divisional applications thereof, and to transact all business in the United States Patent and Trademark Office connected The correspondence address for the above-Identified application is: [X] Customer Number 021005 Hamilton, Brook, Smith & Reynolds, P.C. 530 Virginia Road P.O. Box 9133 Concord, Massachusetts 01742-9133 Please direct all telephone calls and facsimiles to: Name James M. Smith, Esq. Tel. No. 978-341-0036 Fax No. 978-341-0136 i am the: [] Applicant/Inventor. [X] Authorized representative of the Assignee, Advanced Electron Beams, Inc., of the entire interest. See 37 C.F.R. § 3.71. A Statement under 37 C.F.R. §3.73(b) is enclosed. Authorized representative of the Assignee, [], together with [], of the entire interest. A Statement under 37 C.F.R. § 3.73(b) is enclosed. SIGNATURE of Applicant or Assignee of Record Name & Title CEO Signature 12 MAY 2005 Date



Docket No. 2251.2013-001

STATEMENT UNDER 37 C.F.R. § 3.73(b)

PARKER	04(s):	Tavi Avnery and	Ionathan Ripal
Applic	ation No	/Paleot No.:10/768_9	Filed/Issue Date: January 30, 2004
Fort		GAS SE	PARATHIM DEVICE
	Advao	ced Electron Beams, Inc.	a comontivo
		(Name of Assignce)	(Type of Apagana, and, ecoperation, parametry, parametry, experiment agreety, etc.)
slates (hat it is		•
A.	[X]	the assigned of the entire r	ight, title and interest in the patent application identified above; or
R.	[]	an assignce together with [I of the entire right, title and interest in the peters application identified
The rig	ht, title :	nd increst of the above-nam	ed exalgance in the patent application identified above is established by virtue of:
A.[X	An ass and Tr	tenuent from the inventor(s)	of the patent application identified above. The assignment was recorded in the Pate
OR			
3. { }.	A chai	n of title from the inventor(s)	of the patent application identified above, to the current assignee as shown below:
	i.	-	To:
		The document was records	ed in the United States Paters and Trademark Office at
		Real, France_	, or a copy thereof is anached.
	2.	From:	To:
		The document was recorde	ed in the United States Patent and Trademark Office at
		ReelFranc	or a copy thereof is altached,
	3.	Front	То:
		The document was recorde	ed in the United States Patent and Trademerk Office at or a copy thereof is attached.
	[] A	dditional documents in the ch	nain of title are listed on a supplemental sheet.
he un	dersigne	d (whose title is supplied belo	ow) is authorized to act on behalf of the assignee.
	17	MAY 2005	
Jule:_			
Vance;	PRY	AN M. WYSONG	WP-Schapperson.ma
file:_	CE	0	
Sioran	ma.	Engon U Wyon	~~A
1.Emmi	134 76's	Jans W. Wyor	7

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ASSIGNMENT



WHEREAS, we, Tzvi Avnery and Jonathan Nord, have invented a certain improvement in Gas Separation Device described in an application for Patent,

[]	the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application
[X]	the specification of which is United States Application No. 10/768,968, filed January 30, 2004;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
[]	which was patented under United States Patent No. [].

WHEREAS, Advanced Electron Beams, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 10 Upton Drive, Wilmington, Massachusetts, 01887, desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the

execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature:
State/Commonwealth / Tzvi Avnery
of massachusetts
of <u>massachusetts</u> County of <u>middlesex</u>
On this 12th day of april , 2005, before me, the undersigned notary public, personally appeared Tzvi Avnery,
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
SEAL) Sudith K. Sherman (print name)
Judith K. Sherman (print name)
My Commission expires 08 123 107

Inventor's Signature:	
	Jonathan Nord
State/Commonwealth	
of	
County of	
On this day o notary public, personally app	
personally known to n	ne, or
proved to me through	satisfactory evidence of identification, which was
to be the person whose n acknowledged that he/s	ame was signed on the foregoing instrument in my presence, and he signed the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires/

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Docket No. 2251.2013-001

<u>Joint</u>

ASSIGNMENT

WHEREAS, we, Tzvi Avnery and Jonathan Nord, have invented a certain improvement in Gas Separation Device described in an application for Patent,

the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);

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AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the

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Docket No. 2251.2013-001

execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

		:
Inventor's Signature		
Inventor's Signature:		
State/Commonwealth	Tzvi Avnery	:
of		
County of		
On this day of notary public, personally app	of, 20, before more ared Tzvi Avnery,	e, the undersigned
personally known to	ne, or	
proved to me through	satisfactory evidence of identification, which w	ras
to be the person whose name acknowledged that he/she significant.	was signed on the foregoing instrument in my paned the foregoing instrument as his/her free act	presence, and and deed.
(SEAL)	Notary Publ	ic
	(print name)	
	My Commission expires//	•

-3-

Best Available Coby	Docket No	o. 2251 2013-001
Inventor's Signature:		
State/Commonwealth Jonathan Nord		
of PENNSYLVANIA		:
County of Dauphin		
On this 12 day of Man, 2005, bef notary public, personally appeared Jonathan Nord, personally known to me, or	ore me, the	undersigned
proved to me through satisfactory evidence of identification, wh	hich was	
to be the person whose name was signed on the foregoing instrume acknowledged that he/she signed the foregoing instrument as his/	ent in my pr	esence, and and deed.
MONNYEALTH OF PENNSYLVANIA & A A A		
ALL P. STRICKLER, Notary Public Grant Township, Dauphin County Commission Exercise For County Commission Exercise For County	name)	
My Commission expires Oa 1/13 /	07	

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